

Sheet 1 of 1

FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

Docket No.: 6495-0096WOUS U.S. Serial No.: 10/528,503
Applicant: Mohamed Y. Benslimane, et al. U.S. Filing Date: 03/18/05
Title: An Elastomeric Actuator and a Group Art Unit: Unknown
Method of Making an Actuator

U.S. PATENT DOCUMENTS

<u>Examiner's Initials</u>	<u>Patent Number</u>	<u>Patent Date</u>	<u>Name</u>	<u>Class Subclass</u>
<u>gmd</u>	5,173,162	12/22/1992	Hagimura et al.	204/299
<u>gmd</u>	5,255,972	10/26/1993	Shirasu	60/528
<u>gmd</u>	5,977,685	11/02/1999	Kurita et al.	310/311
	U.S. Patent Publications			
<u>gmd</u>	2003/0066741 A1	04/10/2003	Burgess et al.	200/61.43
<u>gmd</u>	*2004/0012301 A1	01/22/2004	Benslimane et al.	310/311

FOREIGN PATENT DOCUMENTS

<u>Examiner's Initials</u>	<u>Document Number</u>	<u>Date</u>	<u>Country</u>	<u>Translation Yes No</u>
<u>gmd</u>	WO 97/27822	08/07/1997	PCT	X
<u>gmd</u>	100 54 247 A1	05/23/02	DE	*See U.S. Equiv.

OTHER DOCUMENTS

Examiner's Initials: gmd Copy of publication "High-field electrostriction of elastomeric polymer dielectrics for actuation" by Roy Kornbluh, et al., SRI International; SPIE Vol. 3669, pgs. 149-161; March 1999.

gmd Copy of publication "Micro-Electro-Mechanical Systems (MEMS) - 2000-; by R. Trujillo, et al.; Presented at 2000 ASIME International Mechanical Engineering Congress and Exposition, November 5-10, 2000; Orland, FL; pgs. 709-716.

EXAMINER

Thomas M. Dougherty

DATE CONSIDERED

January 17, 2007

EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

Docket No.: 6495-0096WOUS

U.S. Serial No.: 10/528,503

Applicant: Mohamed Y. Benslimane, et al.

U.S. Filing Date: 03/18/05

Title: An Elastomeric Actuator and a

Group Art Unit: 2834

Method of Making an Actuator

U.S. PATENT DOCUMENTS

Examiner's Initials	Patent Number	Patent Date	Name	Class Subclass
lmc	3,753,294	08/21/1973	Attali et al.	33/133
	4,266,263	05/05/1981	Haberl et al.	361/283
	4,386,386	05/31/1983	Akita	361/283
	4,494,409	01/22/1985	Kondo et al.	73/651
	4,654,546	03/31/1987	Kirjavainen	307/400
	4,836,033	06/06/1989	Seitz	73/862.04
	5,060,527	10/29/1991	Burgess	73/862.68
	5,090,248	02/25/1992	Cimmino et al.	73/780
	5,115,680	05/26/1992	Lew	73/763
	5,410,210	04/25/1995	Sato et al.	310/363
	5,425,275	06/20/1995	Lockshaw	73/775
	5,755,090	05/26/1998	Hu	60/39.091
	5,841,143	11/24/1998	Tuma et al.	250/458.1
	6,210,514 B1	04/03/2001	Cheung et al.	156/241
	6,282,956 B1	09/04/2001	Okada	73/504.12
	6,343,129 B1	01/29/2002	Pelrine et al.	381/191
	6,376,971 B1	04/23/2002	Pelrine et al.	310/363
	6,543,110 B1	04/08/2003	Pelrine et al.	29/25.35
	6,545,384 B1	04/08/2003	Pelrine et al.	310/309
	6,581,481 B1	06/24/2003	Perusek	73/862.337
	6,583,533 B2	06/24/2003	Pelrine et al.	310/309
	6,586,859 B2	07/01/2003	Kornbluh et al.	310/309
	6,628,040 B2	09/30/2003	Pelrine et al.	310/307
	6,662,658 B2	12/16/2003	Foote	73/514.29
	6,664,718 B2	12/16/2003	Pelrine et al.	310/800
	6,707,236 B2	03/16/2004	Pelrine et al.	310/800
	6,768,246 B2	07/27/2004	Pelrine et al.	310/339
	6,781,284 B1	08/24/2004	Pelrine et al.	310/330
	6,806,621 B2	10/19/2004	Heim et al.	310/328
	6,809,462 B2	10/26/2004	Pelrine et al.	310/800
	6,812,624 B1	11/02/2004	Pei et al.	310/800
	6,876,135 B2	04/05/2005	Pelrine et al.	310/339
lmc	6,882,086 B2	04/19/2005	Kornbluh et al.	310/328

U.S. PATENT DOCUMENTS (Con't)

Examiner's Initials	Patent Number	Patent Date	Name	Class Subclass
<i>fmj</i>	6,891,317 B2	05/10/2005	Pei et al.	310/800
<i>fmj</i>	6,911,764 B2	06/28/2005	Pelrine et al.	310/328
<i>fmj</i>	6,940,211 B2	09/06/2005	Pelrine et al.	310/330
<i>fmj</i>	7,034,432 B1	04/25/2006	Pelrine et al.	310/309
<i>fmj</i>	7,049,732 B2	05/23/2006	Pei et al.	310/800
<i>fmj</i>	7,064,472 B2	06/20/2006	Pelrine et al.	310/324

U.S. Patent Publications:

<i>fmj</i>	US 2001/0035723 A1	11/01/2001	Pelrine et al.	318/116
<i>fmj</i>	US 2001/0026165 A1	10/04/2001	Pelrine et al.	324/750
<i>fmj</i>	US 2002/0008445 A1	01/24/2002	Pelrine et al.	310/330
<i>fmj</i>	US 2002/0050768 A1	05/02/2002	Beck et al.	310/334
<i>fmj</i>	US 2002/0130673 A1	09/19/2002	Pelrine et al.	324/727
<i>fmj</i>	US 2002/0175594 A1	11/28/2002	Kornbluh et al.	310/317
<i>fmj</i>	US 2002/0175598 A1	11/28/2002	Heim et al.	310/328
<i>fmj</i>	US 2002/0185937 A1	12/12/2002	Heim et al.	310/339
<i>fmj</i>	US 2003/0006669 A1	01/09/2003	Pei et al.	310/309
<i>fmj</i>	US 2003/0066741 A1	04/10/2003	Burgess et al.	200/61.43
<i>fmj</i>	US 2003/0067245 A1	04/10/2003	Pelrine et al.	310/311
<i>fmj</i>	US 2003/0141787 A1	07/31/2003	Pelrine et al.	310/365
<i>fmj</i>	US 2003/0141473 A1	07/31/2003	Pelrine et al.	251/129.06
<i>fmj</i>	US 2003/0214199 A1	11/20/2003	Heim et al.	310/309
<i>fmj</i>	US 2004/0008853 A1	01/15/2004	Pelrine et al.	381/191
<i>fmj</i>	US 2004/0012301 A1	01/22/2004	Benslimane et al.	310/311
<i>fmj</i>	US 2004/0124738 A1	07/01/2004	Pelrine et al.	310/307
<i>fmj</i>	US 2004/0217671 A1	11/04/2004	Rosenthal et al.	310/328
<i>fmj</i>	US 2004/0232807 A1	11/25/2004	Pelrine et al.	310/800
<i>fmj</i>	US 2004/0263028 A1	12/30/2004	Pei et al.	310/800
<i>fmj</i>	US 2005/0104145 A1	05/19/2005	Benslimane et al.	257/415
<i>fmj</i>	US 2005/0157893 A1	07/21/2005	Pelrine et al.	381/190
<i>fmj</i>	US 2006/0113878 A1	06/01/2006	Pei et al.	310/363
<i>fmj</i>	US 2006/0113880 A1	06/01/2006	Pei et al.	310/800
<i>fmj</i>	US 2006/0119225 A1	06/08/2006	Heim et al.	310/339
<i>fmj</i>	US 2006/0158065 A1	07/20/2006	Pelrine et al.	310/328

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document Number	Date	Country	Translation Yes No
<i>fmj</i>	WO 96/34701	11/07/1996	PCT	X
<i>fmj</i>	WO 00/66970	11/09/2000	PCT	X
<i>fmj</i>	WO 01/06575 A1	01/25/2001	PCT	X
<i>fmj</i>	WO 01/06579 A2	01/25/2001	PCT	X

FOREIGN PATENT DOCUMENTS (Con't)

Examiner's Initials	Document Number	Date	Country	Translation	
				Yes	No
emd	WO 01/059852 A3	08/16/2001	PCT	X	
	WO 01/58973 A2	08/16/2001	PCT	X	
	WO 01/63738 A2	08/30/2001	PCT	X	
	WO 01/065615 A3	09/07/2001	PCT	X	
	WO 02/37660 A1	05/10/2002	PCT	Abstract	
	WO 2004/079832 A2	09/16/2004	PCT	X	
	WO 2005/081676 A2	09/09/2005	PCT	X	
	WO 2005/079187 A2	09/01/2005	PCT	X	
	0 387 180 A1	09/12/1990	EP	X	
	0 855 307 B1	03/26/2003	EP	X	
	30 06 620 A1	09/03/1981	DE	Abstract	
	30 23 218 A1	02/25/1982	DE	Abstract	
	198 26 391 A1	12/23/1999	DE	Abstract	
	1-273372	11/01/1989	JP	Abstract	
	2 309 833	12/30/1976	FR	Abstract	
	2 793 937 A1	11/24/2000	FR	Abstract	

OTHER DOCUMENTS

Examiner's
Initials

emd

EXAMINER

DATE CONSIDERED

Glenn M. Ogilby *January 17, 2007*

EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).